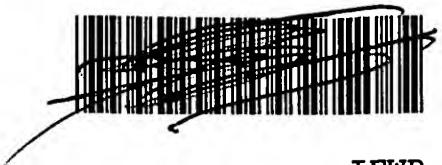


RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/581,773
Source: IFWP
Date Processed by STIC: 6/14/06

ENTERED



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/581,773

DATE: 06/14/2006

TIME: 10:14:31

Input Set : A:\42100.txt
 Output Set: N:\CRF4\06142006\J581773.raw

```

4 <110> APPLICANT: Imperial College Innovations Limited
6 <120> TITLE OF INVENTION: Therapeutically Useful Molecules
8 <130> FILE REFERENCE: 28646/42100
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/581,773
C--> 11 <141> CURRENT FILING DATE: 2006-06-06
13 <150> PRIOR APPLICATION NUMBER: GB 0328363.7
14 <151> PRIOR FILING DATE: 2003-12-06
16 <160> NUMBER OF SEQ ID NOS: 18
18 <170> SOFTWARE: SeqWin99
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 9
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Peptide of WT1 which is presented by HLA-A2 class I molecules
28 <400> SEQUENCE: 1
29 Arg Met Phe Pro Asn Ala Pro Tyr Leu
30 1 5
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 6
34 <212> TYPE: PRT
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: CDR1 of human TCR V -1.5 (V -8.2)
40 <400> SEQUENCE: 2
41 Ser Ser Tyr Ser Pro Ser
42 1 5
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 7
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: CDR2 of human TCR V -1.5 (V -8.2)
52 <400> SEQUENCE: 3
53 Tyr Thr Ser Ala Ala Thr Leu
54 1 5
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 14
58 <212> TYPE: PRT
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: CDR3 of human TCR V -1.5 (V -8.2) - 1
64 <400> SEQUENCE: 4

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/581,773

DATE: 06/14/2006
TIME: 10:14:31

Input Set : A:\42100.txt
Output Set: N:\CRF4\06142006\J581773.raw

65 Val Val Ser Pro Phe Ser Gly Gly Gly Ala Asp Gly Leu Thr
66 1 5 10
68 <210> SEQ ID NO: 5
69 <211> LENGTH: 12
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: CDR3 of human TCR V -1.5 (V -8.2) - 2
76 <400> SEQUENCE: 5
77 Ser Pro Phe Ser Gly Gly Ala Asp Gly Leu Thr
78 1 5 10
80 <210> SEQ ID NO: 6
81 <211> LENGTH: 6
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: CDR1 of human TCR V -2.1 (V -20.1)
88 <400> SEQUENCE: 6
89 Asp Phe Gln Ala Thr Thr
90 1 5
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 7
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: CDR2 of human TCR V -2.1 (V -20.1)
100 <400> SEQUENCE: 7
101 Ser Asn Glu Gly Ser Lys Ala
102 1 5
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 8
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: CDR3 of human TCR V -2.1 (V -20.1) - 1
112 <400> SEQUENCE: 8
113 Ser Ala Arg Asp Gly Gly Glu Gly
114 1 5
116 <210> SEQ ID NO: 9
117 <211> LENGTH: 11
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: CDR3 of human TCR V -2.1 (V -20.1) - 2
124 <400> SEQUENCE: 9
125 Arg Asp Gly Gly Glu Gly Ser Glu Thr Gln Tyr
126 1 5 10
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 11

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/581,773

DATE: 06/14/2006
TIME: 10:14:31

Input Set : A:\42100.txt
Output Set: N:\CRF4\06142006\J581773.raw

130 <212> TYPE: PRT
 131 <213> ORGANISM: Artificial Sequence
 133 <220> FEATURE:
 134 <223> OTHER INFORMATION: Framework amino acid sequence of constant portion C-terminal
 to
 135 CDR3
 137 <400> SEQUENCE: 10
 138 Phe Gly Lys Gly Thr His Leu Ile Ile Gln Pro
 139 5 10
 141 <210> SEQ ID NO: 11
 142 <211> LENGTH: 5
 143 <212> TYPE: PRT
 144 <213> ORGANISM: Artificial Sequence
 146 <220> FEATURE:
 147 <223> OTHER INFORMATION: Beginning of constant region of human TCR V -1.5 (V -8.2)
 149 <400> SEQUENCE: 11
 150 Tyr Ile Gln Asn Pro
 151 5
 153 <210> SEQ ID NO: 12
 154 <211> LENGTH: 5
 155 <212> TYPE: PRT
 156 <213> ORGANISM: Artificial Sequence
 158 <220> FEATURE:
 159 <223> OTHER INFORMATION: Beginning of framework amino acid sequence of human TCR V -
 2.1 (V
 160 -20.1)
 162 <400> SEQUENCE: 12
 163 Ser Glu Thr Gln Tyr
 164 5
 166 <210> SEQ ID NO: 13
 167 <211> LENGTH: 10
 168 <212> TYPE: PRT
 169 <213> ORGANISM: Artificial Sequence
 171 <220> FEATURE:
 172 <223> OTHER INFORMATION: Part of framework amino acid sequence of human TCR V -2.1 (V
 -20.1)
 174 <400> SEQUENCE: 13
 175 Phe Gly Pro Gly Thr Arg Leu Leu Val Leu
 176 5 10
 178 <210> SEQ ID NO: 14
 179 <211> LENGTH: 5
 180 <212> TYPE: PRT
 181 <213> ORGANISM: Artificial Sequence
 183 <220> FEATURE:
 184 <223> OTHER INFORMATION: Part of constant region of human TCR V -2.1 (V -20.1)
 186 <400> SEQUENCE: 14
 187 Glu Asp Leu Lys Asn
 188 5
 190 <210> SEQ ID NO: 15
 191 <211> LENGTH: 830
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Human TCR V -1.5 (V -8.2)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/581,773

DATE: 06/14/2006
TIME: 10:14:31

Input Set : A:\42100.txt
Output Set: N:\CRF4\06142006\J581773.raw

195 <400> SEQUENCE: 15
 196 atgctcctgc tgctcgccc agtgctcgag gtgattttta ctctggagg aaccagagcc 60
 197 cagtccgtga cccagttga cagccacgtc tctgtctctg aaggaacccc ggtgctgctg 120
 198 aggtgcaact actcatcttc ttattcacca tctctcttct ggtatgtca acaccccaac 180
 199 aaaggactcc agcttctccct gaagtacaca tcagcggcca ccctggtaa aggcatcaac 240
 200 ggtttgagg ctgaattaa gaagagtgaa acctccttcc acctgacgaa accctcagcc 300
 201 catatgagcg acgcggctga gtatctctgt gttgtgagtc cttttcagg aggaggtgct 360
 202 gacggactca ccttggcaa agggactcat ctaatcatcc agccctatat ccagaaccct 420
 203 gaccctgccg tgtaccagct gagagactct aaatccagtg acaagtctgt ctgcctattc 480
 204 accgattttg attctcaaac aaatgtgtca caaagtaagg attctgtatgt gtatatcaca 540
 205 gacaaaactg tgcttagacat gaggtctatg gactcaaga gcaacagtgc tggccctgg 600
 206 agcaacaaat ctgactttgc atgtcaaac gcctcaaca acagcattat tccagaagac 660
 207 accttcttcc ccagccaga aagttcctgt gatgtcaagc tggcggagaa aagctttgaa 720
 208 acagatacga acctaaactt tcaaaacctg tcagtgattt ggtccgaat cctcctcctg 780
 209 aaagtggccg ggttaatct gctcatgacg ctgcggctgt ggtccagctg 830
 211 <210> SEQ ID NO: 16
 212 <211> LENGTH: 276
 213 <212> TYPE: PRT
 214 <213> ORGANISM: Human TCR.V.-1.5 (V - 8.2).
 215 <400> SEQUENCE: 16
 216 Met Leu Leu Leu Leu Val Pro Val Leu Glu Val Ile Phe Thr Leu Gly
 217 1 5 10 15
 218 Gly Thr Arg Ala Gln Ser Val Thr Gln Leu Asp Ser His Val Ser Val
 219 20 25 30
 220 Ser Glu Gly Thr Pro Val Leu Leu Arg Cys Asn Tyr Ser Ser Ser Tyr
 221 35 40 45
 222 Ser Pro Ser Leu Phe Trp Tyr Val Gln His Pro Asn Lys Gly Leu Gln
 223 50 55 60
 224 Leu Leu Leu Lys Tyr Thr Ser Ala Ala Thr Leu Val Lys Gly Ile Asn
 225 65 70 75 80
 226 Gly Phe Glu Ala Glu Phe Lys Lys Ser Glu Thr Ser Phe His Leu Thr
 227 85 90 95
 228 Ser Pro Ser Ala His Met Ser Asp Ala Ala Glu Tyr Phe Cys Val Val
 229 100 105 110
 230 Tyr Phe Ser Gly Gly Ala Asp Gly Leu Thr Phe Gly Lys Gly
 231 115 120 125
 232 Thr His Leu Ile Ile Gln Pro Tyr Ile Gln Asn Pro Asp Pro Ala Val
 233 130 135 140
 234 Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe
 235 145 150 155 160
 236 Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp
 237 165 170 175
 238 Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe
 239 180 185 190
 240 Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys
 241 195 200 205
 242 Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro
 243 210 215 220
 244 Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/581,773

DATE: 06/14/2006
TIME: 10:14:31

Input Set : A:\42100.txt
Output Set: N:\CRF4\06142006\J581773.raw

260	225	230	235	240
262	Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe Arg			
263	245	250	255	
265	Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg			
266	260	265	270	
268	Leu Trp Ser Ser			
269	275			
271	<210> SEQ ID NO: 17			
272	<211> LENGTH: 933			
273	<212> TYPE: DNA			
274	<213> ORGANISM: Human TCR V -2.1 (V -20.1)			
276	<400> SEQUENCE: 17			
277	atgctgtgc ttctgtgtc tctggggcca ggctccgggc ttgggtgtcg cgtctctcaa	60		
278	catccgagct gggttatctg taagagtggaa acctctgtga agatcgagtgc cggttccctg	120		
279	gactttcagg ccacaactat gtttggtat cgtcaattcc cgaaacagag tctcatgtg	180		
280	atggcaactt ccaatgaggg ctccaaaggcc acatacgagc aaggcgtcga gaaggacaag	240		
281	tttctcatca accatgcaag cttgacattc tccactctga cagtgaccag tgccatctt	300		
282	gaagacagca gcttctacat ctgcgtgtc agatgggg gggagggttc ggagacccag	360		
283	ttttcggggc caggcacgct gtcctgtgtc ctcgaggacc tgaaaaaaatgt gttcccaccc	420		
284	gagggtcgctg tgtttgagcc atcagaagca gagatctccc acacccaaaa ggccacactg	480		
285	gtgtgcctgg ccacaggctt ctaccccgac cacgtggagc tgagctgggt ggtgaatggg	540		
286	aaggagggtgc acagtgggtt cagcacagac ccgcagcccc tcaaggagca gccgcgcctc	600		
287	aatgactcca gatactgcct gaggcagccgc ctgagggtct cggccaccc ttggcagaac	660		
288	ccccgcaacc acttccgctg tcaagtccag ttctacgggc tctcggagaa tgacgagtgg	720		
289	acccaggata gggccaaacc tgtcaccctt atcgtcagcg ccgaggctg ggttagagca	780		
290	gactgtggct tcacctccga gtcttaccag caaggggtcc tgcgtccac catccttat	840		
291	gagatcttgc tagggaaaggc caccttgtat gccgtgtgg tcagtgcctt cgtgtat	900		
292	gccatggtca agagaaaaggat ttcagaggc tag	933		
294	<210> SEQ ID NO: 18			
295	<211> LENGTH: 310			
296	<212> TYPE: PRT			
297	<213> ORGANISM: Human TCR V -2.1 (V -20.1)			
299	<400> SEQUENCE: 18			
300	Met Leu Leu Leu Leu Leu Leu Gly Pro Gly Ser Gly Leu Gly Ala			
301	1 5 10 15			
303	Val Val Ser Gln His Pro Ser Trp Val Ile Cys Lys Ser Gly Thr Ser			
304	20 25 30			
306	Val Lys Ile Glu Cys Arg Ser Leu Asp Phe Gln Ala Thr Thr Met Phe			
307	35 40 45			
309	Trp Tyr Arg Gln Phe Pro Lys Gln Ser Leu Met Leu Met Ala Thr Ser			
310	50 55 60			
312	Asn Glu Gly Ser Lys Ala Thr Tyr Glu Gln Gly Val Glu Lys Asp Lys			
313	65 70 75 80			
315	Phe Leu Ile Asn His Ala Ser Leu Thr Leu Ser Thr Leu Thr Val Thr			
316	85 90 95			
318	Ser Ala His Pro Glu Asp Ser Ser Phe Tyr Ile Cys Ser Ala Arg Asp			
319	100 105 110			
321	Gly Gly Glu Gly Ser Glu Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu			
322	115 120 125			

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/581,773

DATE: 06/14/2006
TIME: 10:14:32

Input Set : A:\42100.txt
Output Set: N:\CRF4\06142006\J581773.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date